


```

DDDDDDDD TTTTTTTTTT SSSSSSSS AAAAAA SSSSSSSS TTTTTTTTTT
DDDDDDDD TTTTTTTTTT SSSSSSSS AAAAAA SSSSSSSS TTTTTTTTTT
DD DD TT SS AA AA SS TT
DD DD TT SS AA AA SS TT
DD DD TT SS AA AA SS TT
DD DD TT SS AA AA SS TT
DD DD TT SSSSSS AA AA SSSSSS TT
DD DD TT SSSSSS AA AA SSSSSS TT
DD DD TT SS AAAAAAAAAA SS TT
DD DD TT SS AAAAAAAAAA SS TT
DD DD TT SS AA AA SS TT
DD DD TT SS AA AA SS TT
DDDDDDDD TT SSSSSSSS AA AA SSSSSSSS TT
DDDDDDDD TT SSSSSSSS AA AA SSSSSSSS TT

```

```

LL          IIIIII      SSSSSSSS
LL          IIIIII      SSSSSSSS
LL          II         SS
LL          II         SS
LL          II         SS
LL          II         SS
LL          II         SSSSSS
LL          II         SSSSSS
LL          II         SS
LL          II         SS
LL          II         SS
LL          II         SS
LLLLLLLLLLL IIIIIIII   SSSSSSSS
LLLLLLLLLLL IIIIIIII   SSSSSSSS

```


(2)	42	DECLARATIONS
(3)	65	TST\$TIMER_DTS - TIMER AST ROUTINE
(4)	122	TST\$XMITAST_DTS - TRANSMIT DATA MESSAGE AST ROUTINE
(5)	182	TST\$RECVAST_DTS - RECEIVE DATA MESSAGE AST ROUTINE
(6)	240	TST\$MAILAST_DTS - READ MAILBOX AST ROUTINE
(7)	314	TST\$INTEAST_DTS - TRANSMIT INTERRUPT MESSAGE AST ROUTINE

```
0000 1      .TITLE  TSTSDTSAST - DTS AST ROUTINES
0000 2      .IDENT  'V04-000'
0000 3
0000 4      :
0000 5      :*****
0000 6      :
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0000 24     :
0000 25     :*****
0000 26     :
0000 27     :
0000 28     :
0000 29     :++
0000 30     :*  FACILITY: DTS/DTR DECNET TEST PACKAGE
0000 31     :
0000 32     :*  ABSTRACT: THIS MODULE CONTAINS QIO AND TIMER AST ROUTINES FOR DTS.
0000 33     :
0000 34     :*  ENVIRONMENT: DTS RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000 35     :
0000 36     :*  AUTHOR: JAMES A. KRYCKA,      CREATION DATE: 7-DEC-77
0000 37     :
0000 38     :*  MODIFICATIONS:
0000 39     :
0000 40     :--
```



```

0000 42      .SBTTL DECLARATIONS
0000 43
0000 44 :
0000 45 : INCLUDE FILES:
0000 46 :
0000 47      $DTSDEF      ;DTS ERROR CODES
0000 48      CMDDEF      ; DEFINE COMMAND LANGUAGE SYMBOLS
0000 49      EFNDEF      ; DEFINE EFN'S AND FUNCTION CODES
0000 50      $MSGDEF     ; DEFINE MAILBOX MESSAGE ID CODES
0000 51      .IIF NE K_LIST_MEB, .LIST MEB ; DEFINED IN DTPREFIX.MAR
0000 52 :
0000 53 : MACROS:
0000 54 :
0000 55 :     NONE
0000 56 :
0000 57 : EQUATED SYMBOLS:
0000 58 :
0000 59 :     NONE
0000 60 :
0000 61 : OWN STORAGE:
0000 62 :
0000 63 :     NONE

```

```
0000 0000 65 .SBTTL TST$TIMER_DTS - TIMER AST ROUTINE
0000 0000 66 .PSECT TST$CODE NOWRT
0000 0000 67 SA:: ; SYMBOL FOR DEBUGGING PURPOSES
0000 0000 68
0000 0000 69 ;++
0000 0000 70 : FUNCTIONAL DESCRIPTION:
0000 0000 71 :
0000 0000 72 : NONE
0000 0000 73 :
0000 0000 74 : CALLING SEQUENCE:
0000 0000 75 :
0000 0000 76 : CALL #5,TST$TIMER_DTS (INVOKED BY VAX/VMS AS AN AST)
0000 0000 77 :
0000 0000 78 : INPUT PARAMETERS:
0000 0000 79 :
0000 0000 80 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
0000 0000 81 :
0000 0000 82 : IMPLICIT INPUTS:
0000 0000 83 :
0000 0000 84 : NONE
0000 0000 85 :
0000 0000 86 : OUTPUT PARAMETERS:
0000 0000 87 :
0000 0000 88 : NONE
0000 0000 89 :
0000 0000 90 : IMPLICIT OUTPUTS:
0000 0000 91 :
0000 0000 92 : NONE
0000 0000 93 :
0000 0000 94 : COMPLETION CODES:
0000 0000 95 :
0000 0000 96 : NONE
0000 0000 97 :
0000 0000 98 : SIDE EFFECTS:
0000 0000 99 :
0000 0000 100 : NONE
0000 0000 101 :
0000 0000 102 :--
0000 0000 103 :
0000 0000 104 .ENTRY TST$TIMER_DTS,^M<R2,R3,R4> : ENTRY POINT
0000 0002 105 DECL W^TST$GL_CLOCK ;DECREMENTS TIMEOUT CONSTANT
0000 0006 106 BEQLU 10$ ;IF NOT ZERO THEN TEST CONTINUES
0000 0008 107 $SETIMR,S EFN=#EFN_K_TIMER-
0000 0008 108 DAYTIM=W^TST$GO NANOSSEC-
0000 0008 109 ASTADR=W^TST$TIMER_DTS
0000 001B 110 RET
0000 001C 111 10$:
0000 001C 112 $CANCEL,S CHAN=W^TST$GW_LINKCHAN ; CANCEL ALL PENDING LINK I/O REQUESTS
0000 0028 113 CHECK_SS ; CHECK STATUS CODE
0000 002B 114 $CANCEL,S CHAN=W^TST$GW_MAILCHAN ; CANCEL MAILBOX READ
0000 0037 115 CHECK_SS ; CHECK STATUS CODE
0000 003A 116 ; $SETEF,S EFN=#EFN_K_SIGNAL ; SIGNAL END OF TEST
0000 003A 117 MOVB #1,W^TST$GB_ASTFLAGS ;DENOTE CLOCK TIMEOUT
0000 003F 118 SWAKE,S ;WAKEUP MAINLINE
0000 004A 119 CHECK_SS ; CHECK STATUS CODE
0000 004D 120 RET ; EXIT
```



```
004E 122 .SBTTL TST$XMITAST_DTS - TRANSMIT DATA MESSAGE AST ROUTINE
0000004E 123 .PSECT TST$CODE NOWRT
004E 124
004E 125 :++
004E 126 : FUNCTIONAL DESCRIPTION:
004E 127 :
004E 128 : NONE
004E 129 :
004E 130 : CALLING SEQUENCE:
004E 131 :
004E 132 : CALL #5,TST$XMITAST_DTS (INVOKED BY VAX/VMS AS AN AST)
004E 133 :
004E 134 : INPUT PARAMETERS:
004E 135 :
004E 136 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
004E 137 :
004E 138 : IMPLICIT INPUTS:
004E 139 :
004E 140 : NONE
004E 141 :
004E 142 : OUTPUT PARAMETERS:
004E 143 :
004E 144 : NONE
004E 145 :
004E 146 : IMPLICIT OUTPUTS:
004E 147 :
004E 148 : NONE
004E 149 :
004E 150 : COMPLETION CODES:
004E 151 :
004E 152 : NONE
004E 153 :
004E 154 : SIDE EFFECTS:
004E 155 :
004E 156 : NONE
004E 157 :
004E 158 : --
004E 159 :
0004 004E 160 .ENTRY TST$XMITAST_DTS,^M<R2> : ENTRY POINT
0050 161 CHECK_IOSB W^TST$GQ_XMITIOSB : CHECK I/O STATUS CODE
0058 162 BLBC R1,10$ : BRANCH ON FAILURE
005B 163 CMPW R2,W^TST$GW_SIZE : IS MESSAGE CORRECT SIZE?
0060 164 BNEQ 20$ : BRANCH ON ERROR
0062 165 MOVZWL W^TST$GQ_XMITIOSB+2,-(SP) : GET SIZE OF MESSAGE
0067 166 PUSHAL W^TST$GB_XMITBUF : GET ADDRESS OF MESSAGE BUFFER
006B 167 PUSHL #0 : DENOTE A TRANSMIT
006D 168 MOVZBL W^TST$GB_DISPLAY,-(SP) : GET MAXIMUM BYTES TO DISPLAY
0072 169 CALLS #4,W^TST$DISPLAY_MSG : OUTPUT MESSAGE TO PRINT FILE
0077 170 INCL W^TST$GL_XMITDATA : INCREMENT COUNTER
007B 171 INCL W^TST$GB_XMITBUF : INCREMENT MESSAGE SEQUENCE NUMBER
007F 172 : $QIO G @4(AP) : RE-ISSUE TRANSMIT DATA QIO
007F 173 : INSQOE W^TST$QB_XMTDATA,- :
0083 174 @TST$QB_QHEAD+4 :
0088 175 SWAKE_S : QUEUE DATA AST
0093 176 : WAKEUP MAINLINE FOR REQUEUE
0093 177 : CHECK_SS : CHECK STATUS CODE
04 0096 178 10$: RET : EXIT
```

TST\$DTSAST
V04-000

- DTS AST ROUTINES
TST\$XMITAST_DTS - TRANSMIT DATA MESSAGE

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0000'CF 01F58023 8F DO 0097 179 20\$: MOVL #DTS\$_BADDATLEN,W^TST\$GL_STATUS ;NOTE BAD DATA LEN
04 00A0 180 RET ; EXIT


```
00A1 182 .SBTTL TST$RECVAST_DTS - RECEIVE DATA MESSAGE AST ROUTINE
0000 00A1 183 .PSECT TST$CODE NOWRT
00A1 184
00A1 185 :++
00A1 186 : FUNCTIONAL DESCRIPTION:
00A1 187 :
00A1 188 : NONE
00A1 189 :
00A1 190 : CALLING SEQUENCE:
00A1 191 :
00A1 192 : CALL #5,TST$RECVAST_DTS (INVOKED BY VAX/VMS AS AN AST)
00A1 193 :
00A1 194 : INPUT PARAMETERS:
00A1 195 :
00A1 196 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
00A1 197 :
00A1 198 : IMPLICIT INPUTS:
00A1 199 :
00A1 200 : NONE
00A1 201 :
00A1 202 : OUTPUT PARAMETERS:
00A1 203 :
00A1 204 : NONE
00A1 205 :
00A1 206 : IMPLICIT OUTPUTS:
00A1 207 :
00A1 208 : NONE
00A1 209 :
00A1 210 : COMPLETION CODES:
00A1 211 :
00A1 212 : NONE
00A1 213 :
00A1 214 : SIDE EFFECTS:
00A1 215 :
00A1 216 : NONE
00A1 217 :
00A1 218 :--
0004 00A1 219
0004 00A1 220 .ENTRY TST$RECVAST_DTS,^M<R2> ; ENTRY POINT
00A3 221 CHECK_IOSB W^TST$GQ_RECVIOSB ; CHECK I/O STATUS CODE
00AB 222 BLBC R1,10$ ; BRANCH ON FAILURE
00AE 223 CMPW R2,W^TST$GW_SIZE ; IS MESSAGE CORRECT SIZE?
00B3 224 BNEQ 20$ ; BRANCH ON ERROR
00B5 225 MOVZWL W^TST$GQ_RECVIOSB+2,-(SP) ; GET SIZE OF MESSAGE
00BA 226 PUSHAL W^TST$GB_RECVBUF ; GET ADDRESS OF MESSAGE BUFFER
00BE 227 PUSHL #1 ; DENOTE A RECEIVE
00C0 228 MOVZBL W^TST$GB_DISPLAY,-(SP) ; GET MAXIMUM BYTES TO DISPLAY
00C5 229 CALLS #4,W^TST$DISPLAY_MSG ; OUTPUT MESSAGE TO PRINT FILE
00CA 230 INCL W^TST$GL_RECVDATA ; INCREMENT COUNTER
00CE 231 $QIO G 04(AP) ; RE-ISSUE RECEIVE DATA QIO
00CE 232 INSQOE W^TST$QB_RCVDATA,- ;
00D2 233 @TST$QB_QHEAD+4 ;
00D7 234 $WAKE_S ; QUEUE DATA AST
00E2 235 CHECK_SS ; WAKE MAINLINE TO REQUEUE READ
00E5 236 10$: RET ; CHECK STATUS CODE
00E6 237 20$: MOVL #DTSS_BADDATLEN,W^TST$GL_STATUS ; NOTE BAD LENGTH
00EF 238 RET ; EXIT
```

```
00F0 240 .SBTTL TST$MAILAST_DTS - READ MAILBOX AST ROUTINE
000000F0 241 .PSECT TST$CODE NOWRT
00F0 242
00F0 243
00F0 244 :++
00F0 245 : FUNCTIONAL DESCRIPTION:
00F0 246 :
00F0 247 : NONE
00F0 248 :
00F0 249 : CALLING SEQUENCE:
00F0 250 : CALL #5,TST$MAILAST_DTS (INVOKED BY VAX/VMS AS AN AST)
00F0 251 :
00F0 252 : INPUT PARAMETERS:
00F0 253 :
00F0 254 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
00F0 255 :
00F0 256 : IMPLICIT INPUTS:
00F0 257 :
00F0 258 : NONE
00F0 259 :
00F0 260 : OUTPUT PARAMETERS:
00F0 261 :
00F0 262 : NONE
00F0 263 :
00F0 264 : IMPLICIT OUTPUTS:
00F0 265 :
00F0 266 : NONE
00F0 267 :
00F0 268 : COMPLETION CODES:
00F0 269 :
00F0 270 : NONE
00F0 271 :
00F0 272 : SIDE EFFECTS:
00F0 273 :
00F0 274 : NONE
00F0 275 :
00F0 276 :--
00C4 00F0 277
00C4 00F0 278 .ENTRY TST$MAILAST_DTS,^M<R2,R6,R7> : ENTRY POINT
00F2 279 CHECK_IOSB W^TST$GQ_MAILIOSB : CHECK I/O STATUS CODE
00FA 280 BLBC R1,10$ : BRANCH ON FAILURE
00FD 281 BSBW TST$EXAM_MAIL : EXAMINE THE MESSAGE
0100 282 CMPW R6,#MSG$_INTMSG : IS IT AN INTERRUPT MESSAGE?
0103 283 BNEQU 20$ : NO
0105 284 CMPB (R7),W^TST$GW_SIZE : IS MESSAGE CORRECT SIZE?
010A 285 BNEQ 30$ : BRANCH ON ERROR
010C 286 MOVZBL (R7)+,-(SP) : GET SIZE OF MESSAGE
010F 287 PUSHL R7 : GET ADDRESS OF MESSAGE BUFFER
0111 288 PUSHL #1 : DENOTE A RECEIVE
0113 289 MOVZBL W^TST$GB_DISPLAY,-(SP) : GET MAXIMUM BYTES TO DISPLAY
0118 290 CALLS #4,W^TST$DISPLAY MSG : OUTPUT MESSAGE TO PRINT FILE
011D 291 INCL W^TST$GL_RECVINTE : YES, INCREMENT COUNTER
0121 292 : $QIO G @4(AP) : RE-ISSUE READ MAILBOX QIO
0121 293 INSQOE W^TST$QB_RCVMAIL,- :
0125 294 @TST$QB_QHEAD+4 :;QUEUE ANOTHER READ
012A 295 INSQUE W^TST$QB_XMTINT,- :
012E 296 @TST$QB_QHEAD+4 :;QUEUE ANOTHER WRITE
```


TSTSDTSAST
V04-000

J 3
- DTS AST ROUTINES
TST\$MAILAST_DTS - READ MAILBOX AST ROUTI

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5-SEP-1984 00:22:24 [DTS DTR.SRC]DTSAST.MAR;1

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(6)

		0133	297	\$WAKE_S	;WAKE MAINLINE TO REQUEUE READ
		013E	298	CHECK_SS	; CHECK STATUS CODE
		0141	299 10\$:	RET	; EXIT
01F5803B 8F	04	0142	300 20\$:	MOVL	#DTSS_BADMAIL,-
0000'CF	D0	0148	301		W^TST\$GL_STATUS
0000'CF	56	014B	302	MOVZWL	R6,W^TST\$GL_FA0ARG
	3C	0150	303	\$CANTIM S	;GET TYPE OF MAIL
		0159	304	CHECK_SS	; CANCEL THE TIMER
		015C	305	\$CANCEL S	CHAN=W^TST\$GW_LINKCHAN ; CANCEL ALL PENDING LINK I/O REQUESTS
		0168	306	CHECK_SS	; CHECK STATUS CODE
0000'CF	01	016B	307	MOVB	#1,W^TST\$GB_ASTFLAGS ;NOTE END OF TEST
	90	0170	308	\$WAKE_S	;WAKE MAIN ROUTINE
		017B	309	CHECK_SS	; CHECK STATUS CODE
	04	017E	310	RET	; EXIT
0000'CF	D0	017F	311 30\$:	MOVL	#DTSS_BADDATLEN,W^TST\$GL_STATUS
	04	0188	312	RET	; EXIT

```
00000189 314 .SBTTL TST$INTEAST_DTS - TRANSMIT INTERRUPT MESSAGE AST ROUTINE
0189 315 .PSECT TST$CODE NOWRT
0189 316
0189 317
0189 318 :++
0189 319 : FUNCTIONAL DESCRIPTION:
0189 320 :
0189 321 : NONE
0189 322 :
0189 323 : CALLING SEQUENCE:
0189 324 : CALL #5,TST$INTEAST_DTS (INVOKED BY VAX/VMS AS AN AST)
0189 325 :
0189 326 : INPUT PARAMETERS:
0189 327 :
0189 328 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
0189 329 :
0189 330 : IMPLICIT INPUTS:
0189 331 :
0189 332 : NONE
0189 333 :
0189 334 : OUTPUT PARAMETERS:
0189 335 :
0189 336 : NONE
0189 337 :
0189 338 : IMPLICIT OUTPUTS:
0189 339 :
0189 340 : NONE
0189 341 :
0189 342 : COMPLETION CODES:
0189 343 :
0189 344 : NONE
0189 345 :
0189 346 : SIDE EFFECTS:
0189 347 :
0189 348 : NONE
0189 349 :
0189 350 :--
0189 351
0004 0189 352 .ENTRY TST$INTEAST_DTS,^M<R2> ; ENTRY POINT
0000'8F B1 018B 353 CMPW #SS$ NOSOLICIT,-
0000'CF 1A 12 018F 354 W^TST$GQ_INTEIOSB ;INT MSG MAY HAVE NOT BEEN REQUESTED
1A 12 0192 355 BNEQU 2$ ;IF NOT CONTINUE
0194 356 $SETIMR_S EFN=#10,DAYTIM=W^TST$GQ_NANOSEC
01A3 357 $WAITFR_S EFN=#10 ;WAIT A SECOND BEFORE RESENDING
2F 11 01AC 358 BRB 5$
01AE 359 2$:
01AE 360 CHECK_IOSB W^TST$GQ_INTEIOSB ; CHECK I/O STATUS CODE
0186 361 BLBC R1,10$ ; BRANCH ON FAILURE
0189 362 CMPW R2,W^TST$GW_SIZE ; IS MESSAGE CORRECT SIZE?
018E 363 BNEQ 20$ ; BRANCH ON ERROR
01C0 364 MOVZWL W^TST$GQ_INTEIOSB+2,-(SP) ; GET SIZE OF MESSAGE
01C5 365 PUSHAL W^TST$GB_INTEBUF ; GET ADDRESS OF MESSAGE BUFFER
01C9 366 PUSHL #0 ; DENOTE A TRANSMIT
01CB 367 MOVZBL W^TST$GB_DISPLAY,-(SP) ; GET MAXIMUM BYTES TO DISPLAY
01D0 368 CALLS #4,W^TST$DISPLAY MSG ; OUTPUT MESSAGE TO PRINT FILE
01D5 369 INCL W^TST$GL_XMITINTE ; INCREMENT COUNTER
01D9 370 INCL W^TST$GB_INTEBUF ; INCREMENT MESSAGE SEQUENCE NUMBER
```


TSTSDTSAST
V04-000

- DTS AST ROUTINES

TST\$INTEAST_DTS - TRANSMIT INTERRUPT MES

L 3

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VAX/VMS Macro V04-00
[DTS\$DTR.SRC]DTSAST.MAR;1

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```
0000'CF 03 17 0000'CF 00000004'FF 0000'CF 01F58023 8F
          91 13 0E 04 D0 04
01DD 371 5$: $QIO_G @4(AP) ;RE_ISSUE TRANSMIT INTERRUPT QIO
01DD 372
01DD 373 CMPB W^TST$GB TYPE,-
01E1 374 #VAL_K_TYPE_ECHO ;WAS THIS AN ECHO TEST
01E2 375 BEQLU 10$ ;YES JUST EXIT,READ WILL REQUE
01E4 376 INSQUE W^TST$QB_XMTINT,-
01E8 377 @TST$QB_QHEAD+4 ;QUEUE DATA AST
01ED 378 $WAKE_S ;WAKE MAINLINE FOR REQUEUE
01F8 379 CHECK_SS ;CHECK STATUS CODE
01FB 380 10$: RET ;EXIT
01FC 381 20$: MOVL #DTSS_BADDATLEN,W^TST$GL STATUS
0205 382 RET ;EXIT
0206 383 .END
```

TSTSDTSAST
Symbol table

- DTS AST ROUTINES

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5-SEP-1984 00:22:24 [DTSAST.SRC]DTSAST.MAR;1

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SST1 = 00000000
 DTSS_BADDATLEN = 01F58023
 DTSS_BADMAIL = 01F5803B
 EFN_R_TIMER = 00000008
 K_LIST_MEB = 00000000
 MSGS_INTMSG = 00000035
 SA 00000000 RG 02
 SSS_NOSOLICIT ***** X 02
 SYSS_CANCEL ***** GX 02
 SYSS_CANTIM ***** GX 02
 SYSS_SETIMR ***** GX 02
 SYSS_WAITFR ***** GX 02
 SYSS_WAKE ***** GX 02
 TST\$CHECK_IOSB ***** X 02
 TST\$CHECK_SS ***** X 02
 TST\$DISPLAY_MSG ***** X 02
 TST\$EXAM_MAIL ***** X 02
 TST\$GB_ASTFLAGS ***** X 02
 TST\$GB_DISPLAY ***** X 02
 TST\$GB_INTEBUF ***** X 02
 TST\$GB_RECVBUF ***** X 02
 TST\$GB_TYPE ***** X 02
 TST\$GB_XMITBUF ***** X 02
 TST\$GL_CLOCK ***** X 02
 TST\$GL_FAQARG ***** X 02
 TST\$GL_RECVDATA ***** X 02
 TST\$GL_RECVINTE ***** X 02
 TST\$GL_STATUS ***** X 02
 TST\$GL_XMITDATA ***** X 02
 TST\$GL_XMITINTE ***** X 02
 TST\$GQ_INTEIOSB ***** X 02
 TST\$GQ_MAILIOSB ***** X 02
 TST\$GQ_NANOSEC ***** X 02
 TST\$GQ_RECVIOSB ***** X 02
 TST\$GQ_XMITIOSB ***** X 02
 TST\$GW_LINKCHAN ***** X 02
 TST\$GW_MAILCHAN ***** X 02
 TST\$GW_SIZE ***** X 02
 TST\$INTEAST_DTS 00000189 RG 02
 TST\$MAILAST_DTS 000000F0 RG 02
 TST\$QB_QHEAD ***** X 02
 TST\$QB_RCVDATA ***** X 02
 TST\$QB_RCVMAIL ***** X 02
 TST\$QB_XMTDATA ***** X 02
 TST\$QB_XMTINT ***** X 02
 TST\$RECVAST_DTS 000000A1 RG 02
 TST\$TIMER_DTS 00000000 RG 02
 TST\$XMITAST_DTS 0000004E RG 02
 VAL_K_BACK_NO = 00000000
 VAL_K_DISP_NO = 00000000
 VAL_K_FLOW_MESS = 00000002
 VAL_K_NAK_NO = 00000000
 VAL_K_PRIN_NO = 00000000
 VAL_K_RETU_NO = 00000000
 VAL_K_STAT_YES = 00000001
 VAL_K_TYPE_ABRT = 00000001
 VAL_K_TYPE_ACCE = 00000001

VAL_K_TYPE_ECHO = 00000003
 VAL_K_TYPE_NAME = 00000000
 VAL_K_TYPE_SINK = 00000000

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
TST\$CODE	00000206 (518.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.09	00:00:00.85
Command processing	124	00:00:00.59	00:00:03.51
Pass 1	211	00:00:05.10	00:00:15.86
Symbol table sort	0	00:00:00.18	00:00:00.45
Pass 2	82	00:00:01.38	00:00:03.80
Symbol table output	6	00:00:00.10	00:00:00.17
Psect synopsis output	2	00:00:00.03	00:00:00.05
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	463	00:00:07.47	00:00:24.77

The working set limit was 1200 pages.

22891 bytes (45 pages) of virtual memory were used to buffer the intermediate code.

There were 20 pages of symbol table space allocated to hold 199 non-local and 12 local symbols.

445 source lines were read in Pass 1, producing 30 object records in Pass 2.

29 pages of virtual memory were used to define 25 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[DTS\$DTR.OBJ]DTS\$DTR.MLB;1	5
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	14
TOTALS (all libraries)	19

347 GETS were required to define 19 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DTSAST/OBJ=OBJ\$:DTSAST MSRC\$:DTPREFIX/UPDATE=(ENH\$:DTPREFIX)+MSRC\$:DTSAST/UPDATE=(ENH\$:DTSAST)

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